

Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (Currently Amended) A sandwich liposome composition comprising an invaginated vase-like structure containing 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane, at least one cholesterol or cholesterol derivative, and a biologically-active agent.
2. The sandwich liposome composition according to claim 1 wherein the composition has a net charge value equal to 2.
3. The liposome composition according to claim 1, wherein the biologically-active agent is a nucleic acid.
4. The liposome composition according to claim 3 further comprising, a targeting ligand present on the exterior surface of said sandwich liposome.
5. (Currently Amended) A DNA-sandwich liposome composition comprising an invaginated vase-like structure having a plurality of lipid bilayers, and a DNA molecule positioned between two or more lipid bilayers of a sandwich liposome, having net charge of 2 and a size of 200 - 450 nm.
6. The DNA-sandwich composite liposome of claim 15 further comprising one or more targeting ligands.
7. (Currently Amended) A liposome with an invaginated vase-like structure produced by the steps comprising:

- i) heating 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one cholesterol or cholesterol derivative forming heated lipid components;
- ii) sonicating said heated lipid components; and
- iii) extruding lipid components sequentially through filters of decreasing pore size.

8. The liposome of claim 7 further comprising a sandwich liposome, produced by adding a biologically-active agent to the liposomes.

9. The liposome of claim 16, wherein the biologically active agent is DNA, thereby forming a DNA sandwich liposome.

10. The liposome according to claim 9 further comprising a targeting ligand to the exterior surface of said DNA-sandwich liposome.

11. The liposome according to claim 9 further comprising a second biologically active agent.

12. The liposome of claim 9 wherein the DNA, 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one cholesterol or cholesterol derivative carry a net charge value of 2.

13. (Currently Amended) A method for preparing invaginated vase-like liposomes comprising the steps of:

- i) heating a mixture of 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one of cholesterol or cholesterol derivative forming heated lipid components;
- ii) sonicating said heated lipid components; and
- iii) extruding lipid components sequentially through filters of decreasing pore size forming invaginated liposomes.

14. The method of claim 13, further comprising adding DNA to said invaginated liposomes forming DNA-sandwich liposomes.

15. A DNA-sandwich composite liposome comprising an invaginated vase-like structure having a plurality of lipid bilayers, and a DNA molecule positioned between two or more lipid bilayers of the sandwich liposome, having net charge of 2 and a size of 200-450 nm.

16. An invaginated vase-like liposome produced by the steps comprising:

- i) heating 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one cholesterol or cholesterol derivative forming heated lipid components;
- ii) hydrating said heated lipid components forming hydrated lipid components;
- iii) sonicating said [heated] hydrated lipid components forming sonicated lipid components;
- iv) extruding said sonicated lipid components sequentially through filters of decreasing pore size; and
- v) adding a biologically active agent to said extruded lipid components forming invaginated vase-like liposomes.

17. A method for preparing invaginated vase-like liposomes comprising the steps of:

- i) heating a mixture of 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one of cholesterol or cholesterol derivative forming heated lipid components;
- ii) hydrating said heated lipid components forming hydrated lipid components;
- iii) sonicating said hydrated lipid components forming sonicated lipid components;
- iv) extruding said sonicated lipid components sequentially through filters of decreasing pore size forming invaginated vase-like liposomes; and

v) adding DNA to said invaginated vase-like liposomes forming DNA-sandwich liposomes.

18. A composite liposome comprising a first lipid bilayer liposome having an outer surface; a biologically active agent surrounding the outer surface of said first lipid bilayer liposome; and a second lipid bilayer encapsulating the biologically active agent, wherein said composite liposome forms an invaginated vase-like structure.

19. The composite liposome of claim 18, wherein the biologically active agent is DNA.